

Monitoring Data RecordProject Title: U-2524AC (Greensboro Western Urban Loop) COE Action ID: 200321137Stream Name: Long Branch (Site 2BA) DWQ Number: 030909City, County and other Location Information: Greensboro Western Loop, Guilford Co.  
(Remediation Plans Sta. 10+00 to 29+86)Date Construction Completed: 2-29-08 Monitoring Year: ( 1 ) of 5Ecoregion: \_\_\_\_\_ 8 digit HUC unit 03030002

USGS Quad Name and Coordinates: \_\_\_\_\_

**Rosgen Classification:** Proposed reach is a E5 stream typeLength of Project: 1,986' Urban or Rural: Urban Watershed Size: \_\_\_\_\_Monitoring DATA collected by: M. Green & J. Young Date: 3/12/08

## Applicant Information:

Name: NCDOT Roadside Environmental UnitAddress: 1425 Rock Quarry Road Raleigh, NC 27610Telephone Number: (919) 861-3772 Email address: [mlgreen@dot.state.nc.us](mailto:mlgreen@dot.state.nc.us)

## Consultant Information:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Email address: \_\_\_\_\_

**Project Status:** Complete

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**Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.):** Level 1 2 3Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3***Permit States:** NCDOT shall perform the following components of Level I monitoring twice each year for the 5 year monitoring period (summer and winter): Reference photos, plant survival, and visual inspection of channel stability. If less than two bankfull events occur during the first 5 years, NCDOT shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the 5 year monitoring period, the USACE, in consultation with resource agencies, may determine that further monitoring is not required.

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**Section 1. PHOTO REFERENCE SITES***(Monitoring at all levels must complete this section)***Total number of reference photo locations at this site:** 10 reference points, 2 photos at each**Dates reference photos have been taken at this site:** 3/12/08**Individual from whom additional photos can be obtained (name, address, phone):** \_\_\_\_\_

Other Information relative to site photo reference: \_\_\_\_\_

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

**Section 2. PLANT SURVIVAL**

**Attach plan sheet indicating reference photos.**

Identify specific problem areas (missing, stressed, damaged or dead plantings):

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Estimated causes, and proposed/required remedial action:\_\_\_\_\_

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ADDITIONAL COMMENTS: Vegetation is dormant at this time. Long Branch streambank reforestation was completed on 2-29-08. The planting consisted of black willow and silky dogwood live stakes and green ash, river birch, tulip poplar, and willow oak bareroot seedlings.

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If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

### Section 3. CHANNEL STABILITY

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The Long Branch stream relocation is stable for year 1 winter evaluation. Some minor bank scouring does exist along the right bank @ Sta. 17+50 and along the left bank @ Sta.20+00. There is evidence that a bankfull event has recently occurred. NCDOT will continue to monitor this stream relocation.

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3/12/08	Sta. 17+50-L-	Sta. 20+00-L-	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?	Minor bank scouring on right bank	Minor bank scouring on left bank			



# Long Branch



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

Year 1 Winter – March 2008



# Long Branch



Photo Point #4 (Upstream)



Photo Point #4 (Downstream)



Photo Point #5 (Upstream)



Photo Point #5 (Downstream)



Photo Point #6 (Upstream)



Photo Point #6 (Downstream)

Year 1 Winter – March 2008



# Long Branch



Photo Point #7 (Upstream)



Photo Point #7 (Downstream)



Photo Point #8 (Upstream)



Photo Point #8 (Downstream)



Photo Point #9 (Upstream)



Photo Point #9 (Downstream)



# Long Branch



Photo Point #10 (Upstream)



Photo Point #10 (Downstream)